

CLAIMS

What is claimed is:

1. A tone dialer, comprising:
 - 5 a dial buffer adapted to contain a plurality of tone generator commands; and
 - a tone generator adapted to generate tones in accordance with a sequence of said plurality of tone generator commands;
 - wherein said tone generator commands include a first
 - 10 command corresponding to a mimicked activation of a particular key, and a second command corresponding to a mimicked release of said particular key.
2. The tone dialer according to claim 1, wherein:
 - 15 said dial buffer is circular.
3. The tone dialer according to claim 1, further comprising:
 - a timer to time a generated length of tones when said dial
 - 20 buffer contains a plurality of non-null commands.
4. The tone dialer according to claim 3, wherein:
 - when said dial buffer contains no more than one non-null
 - command, said tone generator is adapted to generate said non-null tone
 - until said second command is received.
- 25 5. The tone dialer according to claim 1, wherein:
 - said dial buffer and said tone generator are comprised in a
 - single processor device.

6. The tone dialer according to claim 5, wherein:
said single processor device is a digital signal processor.

5 7. The tone dialer according to claim 1, wherein:
said dial buffer is a first in, first out device.

8. The tone dialer according to claim 1, wherein:
said dial buffer is adapted to contain a stop DTMF tone
generator command in every other location.

10 9. The tone dialer according to claim 1, wherein:
said generated tones are dual tone, multiple frequency
tones.

15 10. A method of digitally generating tones, comprising:
inputting a plurality of tone commands into a dial buffer
accessible by a first processor;
sequentially presenting said output sequence of tone
command information to a tone generator; and
20 generating tones on a continuous basis when only one non-
null tone command is available in said dial buffer.

11. The method of digitally generating tones according to
claim 10, further comprising:
25 generating tones on a fixed timing basis when more than
one non-null tone command is available in said dial buffer.

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12. Apparatus for digitally generating tones, comprising:
means for inputting a plurality of tone commands into a dial
buffer accessible by a first processor;
means for sequentially presenting said output sequence of
5 tone command information to a tone generator; and
means for generating tones on a continuous basis when
only one non-null tone command is available in said dial buffer.

13. The apparatus for digitally generating tones according
10 to claim 12, further comprising:
means for generating tones on a fixed timing basis when
more than one non-null tone command is available in said dial buffer,

14. The apparatus for digitally generating tones according
15 to claim 12, wherein:
said first processor is a digital signal processor

15. The apparatus for digitally generating tones according
to claim 12, wherein:
20 said digital signal processor includes a tone generator.

16. The apparatus for digitally generating tones according
to claim 12, wherein:
said dial buffer is circular.

25 17. The apparatus for digitally generating tones according
to claim 12, wherein said means for generating tones comprises:
a dual tone, multiple frequency tone generator.